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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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03/380,410 10/28/99 JENAU

F 896

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MM92/0110

EXAMINER

DEB, A

ART UNIT	PAPER NUMBER
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2858

DATE MAILED:

01/10/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary	Application No.	Applicant(s)
	09/380,410	JENAU ET AL.
	Examiner	Art Unit
	Anjan K Deb	2858

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 28 October 2000.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-25 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-25 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claims _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are objected to by the Examiner.

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

a) All b) Some * c) None of:

1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e).

Attachment(s)

15) Notice of References Cited (PTO-892)

16) Notice of Draftsperson's Patent Drawing Review (PTO-948)

17) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.

18) Interview Summary (PTO-413) Paper No(s). _____.

19) Notice of Informal Patent Application (PTO-152)

20) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 22 recites the limitation “wherein the function unit is an integrator” in claim 20.

There is insufficient antecedent basis for this limitation in the claim.

Claim 23 recites the limitation in “wherein the function unit is a low-pass” in claim 20.

There is insufficient antecedent basis for this limitation in the claim.

Claim 24 recites the limitation in “wherein the function unit is a peak value rectifier” in claim 20. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-25 are rejected under 35 U.S.C. 102(b) as being anticipated by Kakizaki et al

US-PAT-NO: 5053617 DATE-ISSUED: October 1, 1991.

Re claim 1, Kakizaki et al disclose a method for measuring an AC electrical voltage comprising at least one sensor 38 and evaluating means 32 using Pockel's effect, and at least one

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transmission path 26 and a light source 24. After light has traversed the sensor crystals it is evaluated to provide a measure of the voltage.

Selecting a quantity of sensor crystals that is suitable for the voltage being measured is inherent to an optical voltage measuring device.

Re claim 2, Kakizaki et al disclose changing a quantity of the light beam transmitted through the sensor with a change in the ambient temperature, see column 2 lines 40-45 and column 12 lines 26-29.

Re claims 3,17-20,25 Kakizaki et al disclose plurality of optical sensors disposed in parallel with each other, see column 1 lines 60-65.

Re claims 4-6,20 measuring voltage by summation of voltages obtained from plurality of sensors is inherent to an optical voltage-measuring device.

Re claims 7,8 Kakizaki et al disclose a DC component detector 56 and an AC component, see column 13 lines 55-60.

Re claim 9, Kakizaki et al disclose a method for measuring an AC electrical voltage comprising at least one sensor 38 and evaluating means 32 using Pockel's effect, and at least one transmission path 26 and a light source 24. After light has traversed the sensor crystals it is evaluated to provide a measure of the voltage.

Re claims 9-13 a plurality of optical elements is inherent to the optical measurement device.

Re claims 11,12,14-16, Kakizaki et al discloses optical elements made of $\text{Bi}_{12}\text{GeO}_{20}$ and $\text{Bi}_{12}\text{SiO}_{20}$ (see column 5 lines 58-60 and column 16 lines 15,16).

Re claims 21-24, a function unit comprising, an integrator, low pass filter, and peak value detector are inherent to light detection circuit 30 and AC and DC component detector 58,56 and voltage and temperature determining means 90, 86 see Fig. 6 disclosed by Kakizaki et al.

Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Takahashi et al. US PAT NO: 4,968,881 discloses Date Issued: Nov 6, 1990 discloses a voltage measuring device comprising a light source 1, an electro-optic sensor based on Pockel's effect, and a photodetector 3 for measuring the voltage of object 75.

Okajima et al., US PAT NO: 5,446,381, Date Issued: August 29, 1995 discloses a temperature compensated optical voltage measuring sensor, see Fig. 1-3.

Contact Information

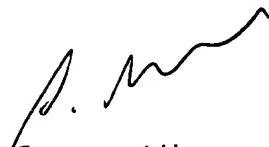
4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Anjan K. Deb whose telephone number is (703) 308-2941. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Safet Metjahic, can be reached at (703)-308-1436.

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Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone numbers are (703)-308-0956 and (703)-305-4900.

AD

1/3/2001



Safet Metjahić
Supervisory Patent Examiner
Technology Center 2850